

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 11 Apr 66
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
1000	begin observations					
1005	RFB	2			3 ad 1 imm sat in water	
1006	Brown Booby	1			ad	
1008	RFB	2			adult	
1010	Brown Booby	1			ad	
1015	BFA	1			1 ad did not follow	
1020	RFB	66			1 imm rest adult	
	BB	8			flushed all adult	
1021	Common Noddy	1				
1025	RFB	125			3 imm, 122 adult	
	BB	7			adult	
	Pom. Jaeger	3			intermediate phase	
1030	Pom Jaeger	1				
1031	Sooty Tern	4				
1100	Sooty Tern	1			adult	
1105	Wedgetail	1	NW		lt.	
1110	wedgetail	1	NW		lt.	
1111	shear/petrel	2	S			
1115	bird sp	2	S			
1116	wedgetail	2	S		lt	
1116	Sooty Tern	1	NW			
1117	RFB	1	SE		ad.	
1121	Sooty Shear	1	SE			
1122	Wedgetail	1	NW		probably circumventing island of Oahu	
1124	Wedgetail	2	NW		lt.	
1125	Sooty Shear	1	SE		lt.	
1126	Wedgetail	3	NW		lt	
1128	Wedgetail	1	NW		lt.	
1130	Common Noddy	1	SE			
1132	Wedgetail	1	NW		lt.	
1135	Wedgetail	1	NW		lt.	
	Common Noddy	1	NW			
1136	Sooty Tern	2	NW		adult	
1138	RFB	1	NW		adult	
1139	Wedgetail	1	NW		lt.	
1140	Wedgetail	2	NW		lt.	

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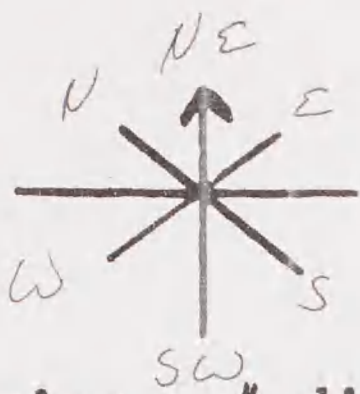
DATE 11 Apr 66
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1140	suspend obs.					
1210	Resume obs					
1210	Sooty Tern	2	SE		ad	
1211	RFB	1	SE		imm	
1215	Common Noddy	1			feeding	
	Wedgetail	50			lt.	
1216	C. Noddy	1	NE			
1217	Sooty Tern	4	N			
1220	Sooty Tern	3	S			
1221	Sooty Tern	1	S			
1222	Wedgetail	1	N			
1224	C. Noddy	1	S			
1227	tern sp	2	S			
1228	Sooty tern	1	N		ad	
1228	Sooty Tern	1	S		ad	
1229	Sooty Tern	4	N		ad	
1229	tern sp	1	S			
1229	C. Noddy	1	S			
1230	C. Noddy	2	S			
1232	RFB	2	S		adult.	
	C. Noddy	3	S		travel	
1233	tern sp	2	S			
1237	Wedgetail	1	S		lt. new plumage	
1240	Sooty Tern	4	SW		adult	
1243	C. Noddy	2	SW			
1245	Wedgetail	1	N		lt.	
1249	Wedgetail	2	N		lt.	
1251	BFA	1			following - 10 mins.	
1257	Wedgetail	1	SW		lt.	
1300	RFB	10				
	tern sp	25 ± 12			feeding	
1301	Newell's S.	1	NW			
1302	Wedgetail	2	NW		lt.	
1305	Sooty Shear	4	N			
1305	Wedgetail	1	N		lt.	
1306	Sooty Shear	1	N			
1310	Wedgetail	1	NW		lt	
1310	RFB	6+				
	tern sp.	10+			feeding	
1312	Sooty Tern	2	W			
1312	RFB	5			feeding	
	Sooty Tern	2+				

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time	species	#	dir.	hgt.	remarks	loc.
1316	Sooty Shear	3	N			
1320	SS	4	N			
1321	SS	1	N			
1322	ST	1	N			
1324	SS	4	N			
1324	SS	1	N			
1325	WT	1	N		lt.	
1326	Bulwer's P	1	~			
1328	BFA	1			follow 5 min	
1330	ST	3	SW		ad.	
1337	SS	4	N			
1340	Frigate tern sp	1	NE		feed	
1342	Wedgetail	1	N		lt.	
1348	ST	1	E		ad	
1349	ST	4	E		ad	
1350	WT	1	~		lt	
1351	RFB	1	W		ad	
1352	Frigate	1	~			
1356	shear/pet	1	N			
1400	WT	1	E		lt	
1401	Frigate	1	~			
1407	ST	25 ± 10			ad	
	CN	40 ± 10			feed	
	WT	15 ± 5			lt - 1 dark	
1410	WT	3	W		lt	
1411	ST	3	W			
1420	ST	30 ± 10			ad	
	CN	200 ± 50				
	HN	5 ± 2			feed	
	WT	50 ± 20			light	
	BB	1			ad	
1430	Bulwer's Petrel	1	~			
1440	Bulwer's P	2	S		heading for land	
1441	Bulwer's P	1	~			
1450	ST	6	W		ad. travel	
1455	Bulwer's P	1	W			
1500	WT	1	W		intermediate	
1504	CN	1	W			
1506	WT	1	W		lt.	
	ST	1	W		ad.	

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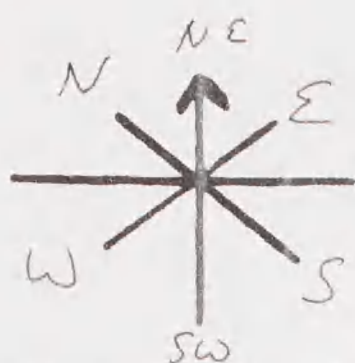
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Pg. # 4

time	species	#	dir.	hgt.	remarks	loc.
1508	Bulwer's P	1	W			
1509	CN	2	W			
1511	bird bird	1				
1515	Sooty Tern	1	NW		ad	
1518	ST	1	W		ad	
1523	ST	6	SW		ad travel	
1530	RFB	1	(9)		ad	
1534	BFA	1			following	
1536	shear/petrel	1	S			
1537	WT	1	SW		lt.	
1542	WT	1	SW			
1546	ST	3	W		ad	
1547	ST	2	W		ad	
1550	ST	2	NE		ad	
1553	shear/petrel	1				
1555	WT	1	NW		ad	
1557	ST	3	SW		ad	
1558	WT	1	SW		lt.	
1600	ST	4	SW		ad.	
1602	RFB	1	SW		ad	
1603	ST	2	NW		ad	
1605	ST	1	SW		ad.	
1606	Bulwer's P	1	S			
1607	WT	1	W		lt.	
1610	CN	1	NW			
1611	WT	1	SW		lt.	
1613	Bulwer's P.	1	W			
1615	ST	1	W			
1625	ST	10			adult	
	CN	75				
	WT	3			light	feeding
	Newell's S	1				
	Fairy Tern	3				
	Great Frigate	1				
1628	Bulwer's P.	1				
1634	BFA	2			1534 ↓ 1633 1BFA	
1642	WT	1	W		lt.	
1649	Darwin's P	1	W		thick dark underwing edges, white under tail coverts etc.	
1650	Bulwer's P ST	1				

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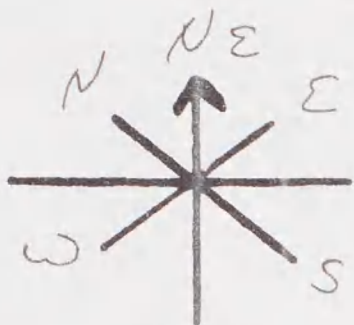
DATE 11 Apr 66
Pg. # 5



time	species	#	dir.	hgt.	remarks	loc.
1655	ST	2	SW		ad	
1656	ST	2	~		ad	
1700	WT	1	W		lt.	
1705	RFB	1	W		ad.	
1710	ST	1	W		ad	
1714	ST	2	SW		ad	
1715	ST WT	1	SW		lt	
1715	ST	3	SW		ad	1715 2 BFA
1716	ST	2	S		ad	
1721	ST	2	SE		ad	
1722	ST	2	S		ad	
1723	Pom Jaeger	1	NE		intermed.	
1724	ST	1	SE		ad	
1725	ST	3	SE		ad	
1726	SS	1	N			
1726	WT	1	NW		lt	
1727	ST	1	SW		ad.	
1728	suspend obs.					
1813	resume obs					
1814	BFA	4			following	
1815	WT	1	SW		lt.	
1816	WT	2	W		lt.	
1822	L. Noddy	1	W			
1825	BFB	1			follow - adult or nearly so	
1828	WT	3	W		lt	
1828	BFA	5				
1829	WT	1	SW		lt.	
1829	HN	28	SW		travel	
1829	ST	1	SW		ad.	
1830	HN	6	SW		travel	
	WT	1	SW		lt	
	ST	1	SW		ad.	
1831	HN	9	S		travel	
	WT	1			lt.	
1832	WT	2	SW		lt.	

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DATE H Apr 66
Pg. # 6

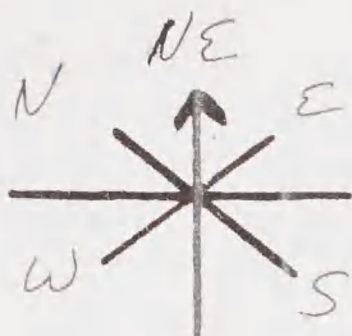


time	species	#	dir.	hgt.	remarks	loc.
1842	H/V	2	W			
1846	WT	1			lt	
1847	Pom Jaeg	1	NE		intended	
1900	and observations					1900 SBFA

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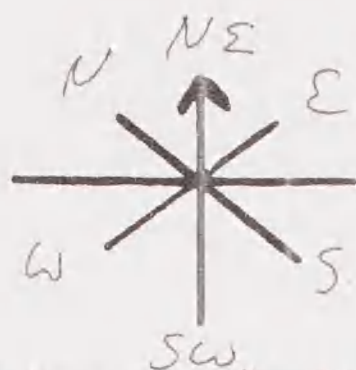
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AT SEA DAILY LOG -- E

DATE 12 Apr 66
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0810	begin obs.					
0810	BFA	2			Follow until 0838 (28 min)	
0820	Sooty Tern	1	N		ad.	
0834	Sooty Shear	4	N			
0839	BFA	3			follow until 0942 (63 min)	
0842	shear/petrel	1	N			
0850	Sooty Shear	4	N			
0851	SS	1	N			
0855	ST	7	W		ad. travel	
0900	Dark-rumped P.	1	W		thick dark underwing edge - white undertail coverts etc.	
0905	shear/petrel	3	@		in rain squall	
0906	SS	1	N			
0912	SS	1	N			
0920	WT	1	W			
0926	ST	13			lt new plumage	
0934	WT	1	N		searching	
0939	ST	1	S		lt	
0943	BFA	4			ad.	
0947	ST	8	E		Follow 23 min	
0950	WT	1	N		ad. travel	
1000	SS	1	N		lt.	
1006	BFA	5			sit	
1022	SS	6	N			
1030	SS	1	N			
1031	ST	2	N		ad	
1032	SS	1	N			
1033	Frigate	1	@			
1035	SS	3	N			
1036	ST	2	S			
1042	SS	1	N		ad.	
1055	SS	1	N			
1100	ST	1	S			
1102	SS	1	N		ad	
1105	BFA	3			follow since 1006	
1105	suspend obs.					
1205	resume obs.					
1205	BFA	4			follow	
1215	ST	10			travel	
1216	ST	1	NW		ad.	

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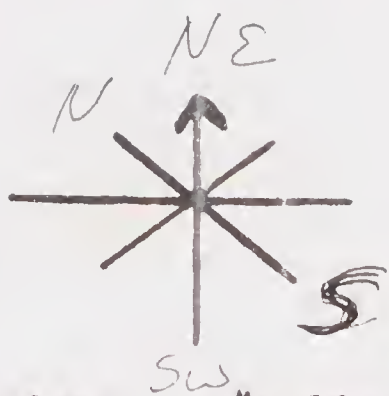


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time	species	#	dir.	hgt.	remarks	loc.
1220	SS	1	N			
1230	BFA	10			scavenging	
1232	RTTB	2			sitting	
1235	Leach's P	1	N			
1240	SS	3	N			
1248	SS	1	N			
1249	G. Frigate	1	⊙		ad. ♂ feeding over mahimahi	
1252	G. Frigate	1	⊙		ad ♀ - could tell sex from 1/2 mile	
1300	SS	3	N			
1310	SS	3	N			
1335	ST	4	⊙		feeding?	
1336	SS	4	N			
1350	SS	1	N			
1355	SS	3	N			
1355	BFA	4			follow since 1230 (85 min)	
1356	SS	2	N			
1410	G. Frigate	1	⊙		ad ♂ feeding - squid + small fish	
1420	BFA	10			5 following, 5 sitting in raft	
1425	ST	25 ± 5			ad	
	FT	1			et. feed	
	WT	1				
1435	SS	1	N			
1455	SS	1	N			
1458	SS	5	N			
1502	Laysan A.	1			follow	
1507	SS	3	N			
1513	SS	4	N			
1515	SS	1	N			
1530	English Sparrow	1			1520 2 BFA	
1531	Sooty Tern	1	S		1 CA	
1600	SS	2	N		♂ circling ship lands on edge of bird bath	
1607	SS	2	N		ad	
1615	ST	150 ± 50			ad.	
	SS	75 ± 25			et	
	WT	2				
	G. Frigate	4			2 ad ♀, 2 ad ♂	
	Fairy Tern	1			Laysan A. passes over school	
	Porpoise	200 ± 100			feeding	

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time	species	#	dir.	hgt.	remarks	loc.
1632	SS	2	N			
1633	ST	1	@		ad	
1640	ST	1	NE			
1643	SS	3	N			
1645	ST	2	S		ad	
1648	SS	2	N			
1650	SS	2	N			
1655	SS	2	@			
1704	SS	10	N			
1708	ST	250 ± 100			feeding	1705 4BFA
	SS	50 ± 25				1 LA
1717	WT	1	NW		lt.	
1722	LA	2	N			
1730	end observations				5BFA 1730 5BFA 1830	

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DATE 13 Apr 66
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0730	begin obs.					
0730	BFA	6				
0730	LA	1				
0745	SS	1	N		followed 1 hour	
0746	LA petrel	1	N		white underparts - possibly DRP	
0750	SS	1	N			
0807	SS	2	N			
0810	SS	1	N			
0815	SS	1	N			
0830	English Sparrow	1			flushed out of meteorology shack - must have been same	
0835	SS	2	N		one as yesterday afternoon. ♂ - still around at 0930	
0836	Leach's P	1	N			
0847	SS	2	N			
0855	SS	1	N			
0900						
0903	SS	2	N		4 BFA following since 0730	
0906	SS	3	N			
0910	SS	4	N			
0914	SS	3	N			
0916	SS	5	N			
0920	SS	3	N			
0921	Leach's P	1	N			
0935	SS	7	N			
0936	Leach's P	1	N			
0938	SS	3	N			
0945	SS	4	N			
0953	SS	4	N		0945 1 LA	
1000	SS	3	N			
1006	SS	2	N			
1008	SS	4	N			
1009	Leach's P	2			sitting	
1014	SS	1	N			
1016	SS	1	N			
1020					5 BFA follow	
1026	SS	3	N			
1032	SS	4	N			
1036	SS	4	N			
1037	SS	1	N			
1041	SS	5	N			
1045	SS	1	N			
1050	SS	2	N			
1055	SS	2	N			

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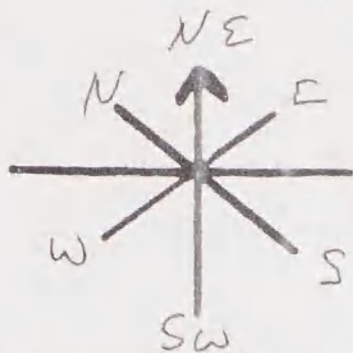
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time	species	#	dir.	hgt.	remarks	loc.
1056	WTTB	2	@		1 pink, 1 white both adult.	
1100	Leach's P	1	N			
1104	SS	2	N			
1105	Leach's P.	1	N			
1110	SS	1	N			
1115	SS	4	N			
1120	SS	1	N			
1120					3 BFA follow	
1121	SS	1	N			
1125	suspend obs.					
1300	resume obs					
1300	BFA	7			follow - rain squall approaches reduced visibility to 30 minutes	
1355	SS	1	N			
1356	Leach's P	1	N			
1403	SS	1	N			
1410	SS	2	N			
1410					BFA 7 follow since 1300	
1415	Leach's P	1	N			
1416	Leach's P	1	N			
1417	SS	2	N			
1424	SS	1	N			
1430	SS	1	N			
1441	SS	2	N			
1445	SS	4	N			
1447	SS	1	N			
1448	BFA	8			follow	
1452	SS	1	N			
1458	SS	6	N			
1459	Leach's P.	2	N			
1502	SS	6	N			
1505	Leach's P	1	N			
1506	SS	1	N			
1510	Leach's P	1	N			
1511	SS	6	N			
1513	SS	1	N			
1515					8 BFA follow	
1516	SS	3	N			
1516	Leach's Petrel	1	N			

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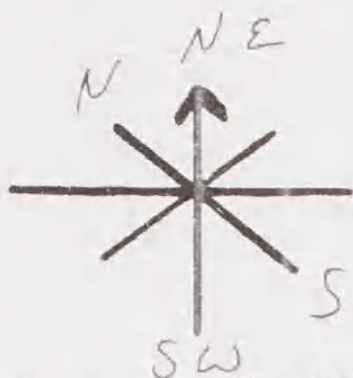
DATE 13 Apr 66
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time	species	#	dir.	hgt.	remarks	loc.
1522	SS	3	N			
1532	SS	1	N			
1536	SS	2	N			
1539	SS	4	N			
1542	SS	1	N			
1547	SS	1	N			
1550	SS	1	N			
1600	SS	1	N		rain squall from 1545	
1610					7 BFA follow	
1610	SS	1	N			
1620	SS	2	N			
1630	SS	3	N			
1636	SS	2	N			
1640	SS	2	N			
1642	SS	1	N			
1650	SS	1	N			
1654	SS	1	N			
1700	Long-tailed Parasitic J.	1	N		flushed lt. phase tail feathers probably not very long.	
1704	SS	1	N			
1720	SS	2	N			
1723					7 BFA follow	
1725	end obs.					

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DATE 14 Apr 66
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time	species	#	dir.	hgt.	remarks	loc.
0745	begin obs.					
0745	BFA	5			follow	
0745	LA	1			"	
0746	SS	1	N			
0800	SS	1	N			
0815	BFA	6			follow	
0817	SS	1	N			
0900	BFA	7			follow	
0926	Leach's P	2	N		1 LA follow	
1010						
1020	SS	1	N		6 BFA follow 1 LA	
1025	SS	1	N			
1034	SS	1	N			
1048	BFA	11			7 sit, 4 follow	
1104	SS	1	N			
1120	BFA				1 follow	
1125	suspend obs.					
1240	resume obs.					
1240	Arctic Tern	1	NE			
1240					11 BFA sit	
1335	SS	1	N		1 LA	blowing bubbled behavior seen among sitting BFAs
1405					4 BFA	each bird stuck head in water and blew bubbles, water splashed up 6 inches
1420	LA	2			1 LA follow	
1454	Darwin's P	1	S		follow 1420 4 BFA follow	
1500	SS	1	N		1440 6 BFA follow	
1525	SS	1	N		bird dark underwing edges, white under tail coverts - seen at close range	
1525					8 BFA follow	
1602	SS	3	N		2 LA	
1610						
1620	SS	1	N		11 BFA follow 2 LA	
1700	BFA LA	15 2			follow	
1720	BFA LA	13 2				
1720	end obs.					

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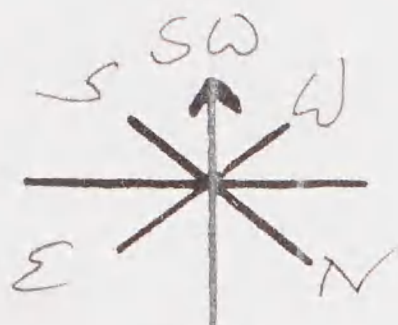
DATE 15 Apr 66
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0745	begin obs.					
0745	BFA	19			follow	
0800	SS	1	N			
0827	SS	2	N			
0828	SS	1	N			
0828	LA	2				
0840	SS	1	N		follow 1	
0850	SS	1	N			
0855		1	N		BFA 15 follow	
0910	Leach's P.	1	N			
0915	SS	1	N			
0919	SS	1	N		0915 BFA with white underwing	
0955						
1020	SS	1	N		13 BFA, 2 LA follow	
1025					1020 Wm BFA seen	
1026	SS	1	N		12 BFA follow	
1028	SS	1	N			
1035	SS	2	N			
1038	Leach's P	1	N			
1050	Leach's P	1	SE			
1106	SS	1	N			
1125					11 BFA follow	
1125	suspend obs.					
1245	resume obs.					
1245	BFA	22			LA1 following	
1330	Bonin I. Petrel	1	N		very close	
1335	BFA	25			follow	
1338	SS	1	N			
1340	petrel sp	1	S			
1350	Bonin I. Petrel	1	C			
1400	SS	1	N			
1405	Dark-rump P	1	S			
1406	Bonin Is P	1	SW			
1407	SS	2	N			
1413	SS	1	N			
1425	SS	1	N			
1428	SS	1	N			
1430					25 BFA 2 LA follow	
1441	SS	2	NE			
1444	SS	1	N			

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Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
1510	SS	1	N			
1515	LA	3			ca 20 BFA	
1605	SS	1	N		www BFA at 1615	
1630						
1640	BFA	29			19 BFA 3 LA follow	
1655	nope obs.				3 LA	
1730	resume obs.					
1745	SS	1	N			
1820	BFA	ca 50			LA 5 - put crewmember aboard USS Paul	
1822	sunset				Revere with appendicitis	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

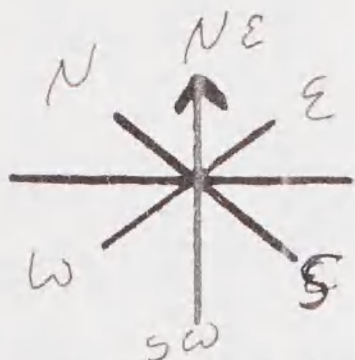
DATE 16 Apr 66
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0755	begin obs.					
0755	BFA	4			follow	
0812	petrel sp	1	N			
0855	Leach's P	2	SW		probably BIP	
0910					4 BFA follow	
0918	Leach's P	1	N			
1000	BFA	5			follow	
1010	SS	1	N			
1035	SS	1	N			
1045	SS	1	N			
1100	BFA	6			follow	
1112	SS	1	N			
1120	suspend obs.					
1300	resume obs.					
1300	BFA	2			follow	
1415	LA	1				
1420	SS	1	N		BFA 2 follow	
1448	SS	1	N			
1453	SS	1	N			
1540	BFA	3				
1530	shear/petrel	1	N			
1605					4 BFA follow	
1620	BFA	6			follow	
1622	SS	1	N			
1650	SS	1	N			
1704	SS	1	N			
1715	BFA	6			follow	
1720	end obs.					

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E

DATE 17 Apr 66
Pg. # 1

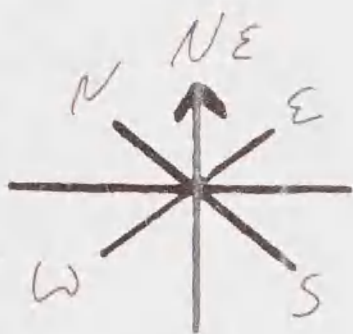


time	species	#	dir.	hgt.	remarks	loc.
0800	begin obs.					
0800	BFA	3			follow	
0800	LA	1				
0820	SS	1	N			
0900	BFA	2			follow	
1015	BFA	1			follow	
1055	BFA	5			follow	
1112	SS	1	N			
1115					1 LA follow	
1130					2 BFA follow	
1130	suspend obs.					
1300	resume obs.					
1300					2 BFA follow	
1400	LA	2			3 BFA follow	
1420	SS	1	N			
1430	SS	1	N			
1433	SS	1	N			
1435	SS	1	N			
1435					4 BFA 2 LA	
1440	Pom Jaeger	1	N		right	
1450	Whale				1 - probably humpback	
1500	BFA	6				
1530	Leach's P	1	N			
1530	LA	3				
1600					6 BFA 3 LA	
1615	SS	1	N			
1628	SS	1	N			
1648	SS	1	N			
1700	SS	2	N			
1700	BFA	7			follow	
1705	SS	1	N			
1706	SS	1	N			
1718	SS	2	N			
1725	BFA	7				
	LA	3				
1725	end obs.					

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E

DATE 18 Apr 66
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0745	begin obs.					
0745	BFA	8			follow	
0800	SS	1	N			
0830	LA	1			follow	
0837	SS?	1	N			
0845					gray backed - dark underparts? white flash to underwings - flashes no mottled petrel line	
0900	SS	1	N		4 BFA 1 LA follow	
0945					0900- 2 BFA follow ramsquall	
1045						
1118	SS	1	N		3 BFA follow	
1122	SS	1	N			
1125					5 BFA follow	
1125	suspend obs.					
1300	resume obs.					
1300						
1348	petrel sp.	1			0 BFA flushed - light grey dorsally, mantle splotchy dark & light grey - evidently molting, ventrally all white including undertail coverts. underwings had fairly narrow dark edge. Size of a Bonin Is. Petrel - landed in water twice - dorsal outer rectrices (perhaps 2 on each side) appeared white.	
1400						
1430					0 BFA	
1500					1 BFA follow no follow	
1540					0 BFA	
1553	Phalarope	1	N		2 BFA	
1556	Phalarope	1	N		sat in water	
1640					1 BFA	
1650	SS	1	N			
1653	SS	1	N			
1715	4				2 BFA follow	
1722	Arctic Tern	5	N		travel	
1725					2 BFA follow	
1725	end obs.					

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E

DATE 19 Apr 66
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0750	begin obs.				0 BFA at 0750	
0912	BFA	1			0 BFA at 0850	
0950					1 BFA	
1005	BFA	3				
1010	SS	1	N			
1039	SS	1	N			
1125	BFA	4			Follow	
1125	suspend obs.					
1310	resume obs.					
1310					0 BFA	
1330					1 BFA follow	
1342	SS	1	N			
1343					2 BFA follow	
1443					1 BFA	
1543					0 BFA	
1636	SS	1	N			
1643					0 BFA	
1644	SS	1	N			
1645	SS	2	NE			
1646	SS	1	N			
1708	SS	2	N			
1725					1 BFA	
1725	suspend obs.					
1815	resume obs.					
1815					0 BFA	
1835	SS	1	N			
1845					0 BFA	
1845	end obs.					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 20 Apr 66
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0745	begin obs.					
0745	BFA	4				
0800	BFA	5			follow	
0806	SS	1	N		follow	
0845	BFA	8				
0910	petrel sp	1	S		follow	
0945	SS	1	N		BIP sized - dark above, white below - distant	
0945						
1015	SS	1			2 BFA follow	
1016	petrel sp	1	nn		sitting + eating	
					light grey back w/ dark W across wings + mantle	
					white underparts including undertail coverts.	
					fairly thin, ^{dark} underwing edges - thinner than BIP but	
					thinner than booby. flight fairly storm petrel like	
					somewhat fluttery and light, but bird size of BIP.	
1017	Leach's P	1	nn			
1018	SS	1			sitting + eating?	
1037	SS	1	N			
1040	SS	1	N			
1045					2 BFA follow	
1100					3 BFA follow	
1110	shear/petrel	1			large-cooked wrists, probably all dark - distant	
1111	SS	1	N		slow + bulking	
1125						
1125	suspend obs.				2 BFA follow	
1300	resume obs.					
1310					0 BFA	
1325					1 BFA follow	
1425					0 BFA	
1426	Leach's P	3			sat in water	
1429	Leach's P	1	N			
1435	Seal?	+			1 - appeared to be seal floating on its back with	
1515					flippers in air, then folded flat, then in again.	
1615					4 BFA Follow	
1630					1 BFA "	
1700					2 BFA "	
1725					3 BFA "	
1725	end obs				2 BFA "	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 21 Apr 66
Pg. # 1

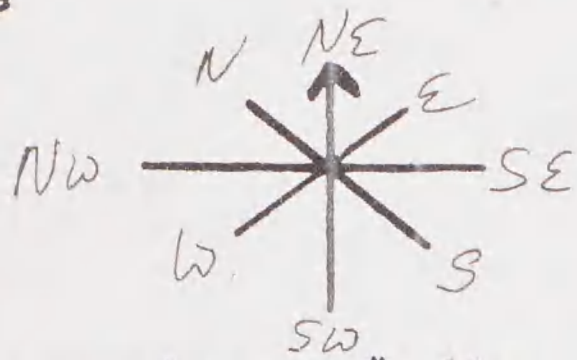


time	species	#	dir.	hgt.	remarks	loc.
0750	BFA	1				
0800	shear/petrel	2			dead calm	
0806	BFA	2			sitting	
0810	SS	2			follow	
0812	SS	1			sitting	
0815	BFA	3			flushed	
0820	SS	9			follow	
0821	SS	1			sitting	
0822	SS	4			sit	
0827	SS	20			sit	
	alcid	1			sit	
0835	SS	11			probably puffin	
0837	SS	25			sit	
0838	Leach's P	2	N		sit	
0845	SS	10				
0846	SS	20			flush	
0844	tern sp	1			sit	
0847	SS	15			eat	
0848	Horned Puffin	1			sit	
0855	SS	13			sit - winter plumage	
0900	SS	10			sit	
0901	alcid	1			sit	
0915	BFA				sitting	
0916	bird	2			3 follow	
0925	seal				sit	
0926	storm petrel sp	1	E		1 or 2 - flopping flippers back & forth	
0935	BFA	5				
0942	SS	2			sit	
0943	Horned Puffin	1			flushed	
0945	seal				sit - winter plumage	
0954	Horned Puffin	1			1	
1000	alcid	1			sit - winter plumage	
1012	whale	1	NW		large	
1015	BFA	2				
1050	SS	1	NE		follow	
1055	Horned Puffin	1			sit - breeding plumage	
1115					4 BFA following	
1115	Pom F aeg	1	N		intermediate	
1125	suspend obs.					
1300	resume obs.					
1301	SS	3	N			
1300	LA	1			2 BFA follow	

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SMITHSONIAN INSTITUTION
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DATE 21 Apr 66
Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
1315	SS	2	N			
1325	SS	1	N			
1350	SS	4	N			
1430	SS	1	N			
1425					0 BFA	
1446	Horned Puffin	1			sit - winter plumage	
1535	SS	1	N			
1535					0 BFA	
1550					1 BFA	
1600	Horned Puffin	1			sit	
1615					2 BFA	
1700	Horned Puffin	1			sit	
1725					3 BFA	
1725	end obs.					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 22 Apr 66
Pg. # 1

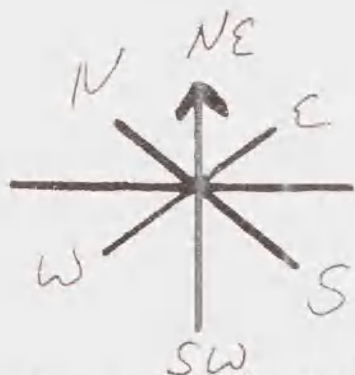


time	species	#	dir.	hgt.	remarks	loc.
0810	begin obs.					
0810	BFA	2			follow	
0830	B.L. Kittiwake	1	N		winter plumage	
0840	alcid	1	N			
0910						
1010					1 BFA follow	
1030	tufted Puffin	1	N		1 BFA follow	
1100	seal	1			winter plumage - red bill, dark underparts	
1105	seal	1			much smaller than those of 21+20 Apr.	
1106	Gull	1			scavenge	
1125					0 BFA	
1125	SS	1	N			
1125	suspect obs					
1235					1 BFA	
1235	resume obs.					
1200	Gull	2			1 imm + 1 ad	
1205	SS	4			sat	
1210	bird	1				
1255	Tufted Puffin	1			sit breeding plumage	
1300	SS	1	N			
1335					0 BFA	
1426	Seal	1			1 BFA	
1435						
1445	SS	1	N			
1508	Tufted Puffin	1			sit	
1535						
1615	Storm petrel sp	1	N		0 BFA	
1645					0 BFA	
1646	SS	1	S			
1650	Tufted Puffin	2			sit - breeding plumage	
1705	T. Puffin	1	N			
1710	seal	1				
1715	whale	1				
1718	SS	1	SW			
1723	Fork-tailed Petrel	1	NW			
1725	Fork-tailed Petrel	1	E			
1725	end obs.					

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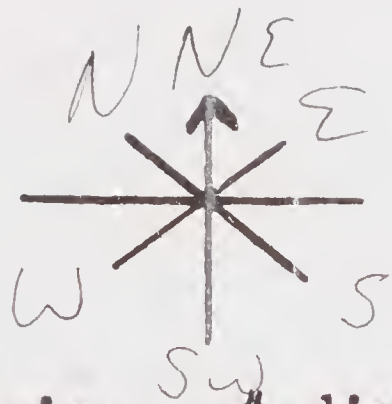
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 23 Apr 66
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0750	begin obs.					
0750	BFA	1			follow	
0820	BFA	5				
0820	Gull	1	follow		Herring type adult - legs feet looked pink, not greenish but	
0845	Tufted Puffin	1	N		view indistinct	
0846	Forked-tailed Petrel	1	NW		winter plumage	
0850	seal	1				
0915	gull	1	follow		2nd year plumage - Herring type	
0920					1 BFA gull	
1020					2 BFA gull	
1030	Forked-tailed P	1	W			
	Leach's Petrel	1				
1032	gull	1			was behind ship same kind as other - adult.	
1050	porpoise	125+	SE			
1100	SS	3	SE		flushed	
1120	Glaucous-winged?	1			nearly adult	
	Gull					
1125						
1200	Tufted Puffin	1			2 BFA	
1225					2 BFA	
1230	Leach's P	1				
1232	SS	6				
1235	gull	5 25			all immatures all Herring type	
1300	gull	12			adult first year Herring type	
	Herring Gull	1			adult	
1335	gull	1				
1335	large porpoise				2nd winter	
1340	by small whale	2			0 BFA	
1343	Leach's P	1	S			
1347	SS	1	N			
1350	Herring Gull	1			2nd winter plumage	
1405	seal	1				
1426	seal	1				
1435	Herring? Gull	1				
1435					1 BFA	
1450	Herring Gull	1			2nd winter	
1505	Herring Gull	3			"	
1532	Herring Gull	2			2nd winter	

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E

DATE 23 Apr 66
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1540	alcid	1	S		large - white underparts	
1625	Herring Gull	4			2 adult, 2 2nd winter	
1630	SS	1	S			
1640	Herring Gull	6			now 15 over ship	
1700	Tufted Puffin	1	N		breeding plumage	
1700					2 BFA	
1720	porpoise	25	S			
1725					2 BFA	
1725	end obs					

TRIP REPORT

U.S.S. GRANVILLE HALL

Honolulu to Seattle

April 11 - April 24, 1966

Prepared by

Warren King

Sea bird observations were carried out from 11 April to 24 April 1966 on a crossing of the Pacific Ocean from Honolulu, Hawaii to Seattle, Washington on the U.S.S. Granville Hall as part of the POBSP.

Observations were conducted for 108.3 hours over the thirteen day cruise for a daily average of 8.3 hours, during which time 970 linear miles were sampled. (average 74.6 miles per day at nine knots.) One observer was present at all times. Observations were suspended during mealtimes and resumed afterwards.

The course followed by the ship was a more or less straight line route between the two ports except for a two day delay due to the necessity of evacuating a critically sick crew member. This evacuation required a day's backtracking, and, as a result, roughly the same area was sampled on three succeeding days, 14-16 April.

The weather conditions were ideal throughout the crossing. No winds in excess of 20 knots were recorded. Tailwinds prevailed the first two days and were replaced by mild trade winds from the north to northeast for the remainder of the trip.

Fog patches were encountered the last two days of the trip and a dead calm prevailed for 6 hours on the morning of 21 April as the ship passed through the center of a high pressure area. Weather observations were recorded every six hours throughout the cruise.

Excellent cooperation was received from Captain Ruhsenberger, the officers, and crew of the Granville Hall at all times, which made for an enjoyable and successful trip.

Observation Summary

The following species were observed only on the first two days of the cruise, i.e. within 300 miles of the Hawaiian Islands:

Wedge-tailed Shearwater	133
Newell's Shearwater	2
Bulwer's Petrel	11
Red-tailed Tropicbird	2
White-tailed Tropicbird*	2
Blue-faced Booby	1
Brown Booby	18
Red-footed Booby	225
Great Frigatebird	12
Sooty Tern	721
Common Noddy	383
Hawaiian Noddy	50

The following species were observed during most days of the cruise:

Laysan Albatross	16
Black-footed Albatross	133
Sooty Shearwater	589
Leach's Storm Petrel	35

The following species were observed only on the last three days of the cruise:

Fork-tailed Petrel	4
Horned Puffin	7
Tufted Puffin	9
Glaucous-winged Gull	1
Herring Gull	19
Black-legged Kittiwake	1

The following species were observed in Juan de Fuca Straights or Puget Sound:

Common Loon	Glaucous-winged Gull
Western Grebe	Herring Gull
Pelagic Cormorant	Mew Gull
Brandt's (or Double-crested) Cormorant	Bonaparte's Gull
Black Brant	Common Murre
Common (or Surf) Scoter	Pigeon Guillemot
White-winged Scoter	Rhinoceros Auklet
Scaup sp.	Tufted Puffin
Red-breasted Merganser	Golden-crowned Sparrow
Shorebird sp.	Swift sp.

* Seen 3 days from Honolulu (400 miles)

The following species were considered rare or accidental in terms of small populations or extra limital occurrence:

Dark-rumped Petrels	4
Bonin Island Petrels	3
Cookilaria sp.	2
Long-tailed Jaeger	1
Arctic Terns	6
Red ? Phalaropes	2
House Sparrow	1

Species Account

Black-footed Albatross Diomedea nigripes

Date April	11	12	13	14	15	16	17	18	19	20	21	22	23
Max. No. in one													
Observation	5	10	8	15	50	6	7	8	4	8	5	2	5
2 PM Sea water													
Temperature	24.4	22.8	22.2	20.0	20.0	19.8	18.3	16.2	15.1	12.9	11.7	10.0	09.4

Observed every day of the cruise. Numbers built to a peak on 15 April and then dropped to a low but fairly constant level across the Pacific. The peak on 15 April may be partially explained in two ways. First, one half of the birds observed on this date were following the U.S.S. Paul Revere with which the Granville Hall rendezvoused. During 15 April the Granville Hall's course was southwesterly. It might be assumed that albatrosses were more attracted to a ship which was headed toward their breeding islands than away from them during the breeding season.

Prior to 15 April maximum numbers were observed during the afternoon, while after 15 April the highest number for the day was seen in the morning.

Laysan Albatross Diomedea immutabilis

April	11	12	13	14	15	16	17	18	19	20	21	22	23
Max. No. at one													
observation	0	2	1	2	5	1	3	1	0	0	1	0	0

Although the numbers of this species were lower than those for Black-footed Albatross, the general pattern remained the same. Peak numbers were observed on 15 April. Several birds showed a marked tendency to follow the ship, following most of the day, and passing closer to the ship than the Black-footed Albatross, even to the point of sweeping continually across the helicopter deck of the ship at a height of fifteen feet or less.

Wedge-tailed Shearwater Puffinus pacificus

Observed only on 11 April (126) and 12 April (7). None were seen further than 250 miles from the Hawaiian Islands. All were light phase.

Sooty Shearwater Puffinus griseus

April	11	12	13	14	15	16	17	18	19	20	21	22	23
	25	137	160	14	27	10	15	7	11	7	156	9	11

Observed every day from Honolulu to the Washington coast. On 12 April two large feeding flocks contained 50 to 75 Sooty Shearwaters respectively. This species has seldom been observed feeding in the Central Pacific Ocean. Numerous records exist of birds migrating directly past feeding flocks of terns and shearwaters.

At 38° N a change in the species' behavior was noted. From this point birds were seen frequently sitting on the water, and the directional aspect of those seen flying dissipated, indicating that the southern boundary of their contranuptial range had been crossed. The large numbers on 21 April were sitting on the water in rafts of 5-30 birds each in a dead calm.

All Sooty Shearwaters that came within good observation range had white underwing linings. No birds were seen which were suspected of being Slender-billed Shearwaters.

Newell's Shearwater Puffinus puffinus newelli

Two were observed on 11 April within 50 miles of Oahu

Dark-rumped Petrel Pterodroma phaeopygia

Four were observed during the first five days of the cruise. The bird of 15 April was at 28°15'N 148°45'W, a distance of 600 miles from its nearest breeding colony on Maui. This record probably constitutes the northernmost sighting of this species.

Bonin Island Petrel Pterodroma hypoleuca

Three were observed on 15 April at a distance of 900 miles from their nearest breeding colony.

Cookilaria sp.

Small, light grey backed petrels of the cookilaria group were observed on 18 and 20 April. The fairly narrow, but distinct, dark underwing edges indicated that the birds probably were not those with which the author has some familiarity, P. h. hypoleuca, P. h. migripennis or P. leucoptera masafuerae.

Bulwer's Petrel Bulweria bulwerii

Eleven were seen within 50 miles of Oahu.

Leach's Storm Petrel Oceanodroma leucorhoa

April	11	12	13	14	15	16	17	18	19	20	21	22	23
	0	1	15	2	3	3	1	0	0	5	2	0	3

Observed most days of the cruise. Those observed between 12 and 17 April appeared to be migrating north, while those seen between 20 and 23 April were flying non-directionally or were sitting. The former group may be the Aleutian population, the latter the west coast population.

Fork-tailed Petrel Oceanodroma furcata

Two were seen on 22 April and two on 23 April as the ship neared the Washington coast. Birds, probably of this species, were seen and heard circling the ship at night from 20 to 23 April.

Red-tailed Tropicbird Phaethon rubricauda

Two were seen on 12 April about 200 miles northeast of Oahu.

White-tailed Tropicbird Phaethon lepturus

Two were seen on 13 April about 400 miles northeast of Oahu.

Blue-faced Booby Sula dactylatra

One was observed within 50 miles of Oahu. It had adult plumage. This species is seldom observed northeast of the Hawaiian Islands.

Brown Booby Sula leucogaster

All 18 birds of this species were seen within sight of Oahu. All were in adult plumage. Most were taking part in large feeding flocks.

Red-footed Booby Sula sula

All 225 of this species were observed within 50 miles of Oahu. Five were immature; the rest were adult. Most were taking part in large feeding flocks.

Great Frigatebird Fregata minor

Four were seen on 11 April and eight on 12 April. All were within 250 miles of Oahu.

Red? Phalarope Phalaropus fulicarius

Two phalaropes, presumably of this species, were seen heading north on 18 April. One sat on the water. Both were in winter plumage.

Pomarine Jaeger Stercorarius pomarinus

Six of this species were seen within 50 miles of Oahu on 11 April. One was seen on 17 April, and one on 21 April, both heading north.

Long-tailed ? Jaeger Stercorarius longicaudus

A small jaeger, presumably of this species, was seen on 13 April as it headed north.

Glaucous-winged Gull Larus glaucescens

One was observed on 23 April less than 100 miles from the Washington coast.

Herring Gull Larus argentatus

At least 19 of this species were seen on 23 April less than 100 miles from the Washington coast.

Black-legged Kittiwake Rissa tridactyla

One was seen on 22 April heading north about 300 miles from the Oregon coast.

Sooty Tern Sterna fuscata

Large feeding flocks of Sooty Terns were seen on 11 (166) and 12 April (555). None were seen further than 250 miles northeast of Oahu. All were adults.

Common Noddy Anous stolidus

All 383 of this species were seen within 50 miles of Oahu on 11 April. Most were taking part in feeding flocks.

Hawaiian Noddy Anous minutus

All 50 were observed within 50 miles of Oahu on 11 April. Several were taking part in feeding flock in the company of Common Noddies, but most were heading toward the Hawaiian Islands in long columns.

Arctic Tern Sterna paradisaea

One was seen on 14 April and 5 on 17 April. All were in winter plumage and were headed north. Evidently small numbers of this species migrate north across the entire eastern Pacific.

Fairy Tern, Gygis alba

Three were seen on 11 April and two on 12 April. All were less than 250 miles northeast of Oahu. All were in feeding flocks.

Horned Puffin Fratercula corniculata

Seven were seen on 21 April over 400 miles from the Oregon coast.

Tufted Puffin Lunda cirrhata

Six were seen on 22 April and three on 23 April. The first ones were observed 300 miles from the Oregon coast.

House Sparrow Passer domesticus

A male House Sparrow flew aboard ship on 12 April approximately 200 miles northeast of Oahu. It spent the night and departed on 13 April. This is the first occurrence of this species any distance at sea in the Central Pacific Ocean.

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 11 Apr 66

M. Esterline

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200																
0300																
0400																
0500																
0600																
0700																
0800																
0900																
+ 1000	21-20	57-58														(10 to 12 per hr.)
1100	18	49														05
1200	13	40														13°
1300	13	30														09°
1400	21-12	57-20														05/10
1500	19	14														
1600	26	08														
1700	34	57 02														
1800	42	56-56														
+ 1900	50	56-50														
2000	21-57	56-45														
2100																
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 12 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	22-32	56-04													
0300	39	55-58													05/10
0400	42	52													
0500	48	46													
0600	54	39													
0700	23-00	31													
0800	23-06	55-24													
0900	13	17													
1000	20	11													
1100	26	05													
1200	23-32	54-59													
1300	38	49													
1400	23-45	54-39													
1500	51	30													
1600	57	22													
1700	24-03	15													
1800	09	08													
1900	16	54-01													
2000	24-23	53-54													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 13 Apr 66

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200	25-06	53-01														
0300	13	52-52														
0400	20	43														
0500	27	34														
0600	25-35	52-25														
0700	42	16														
0800	25-49	52-07														05/10
0900	54	52-01														
1000	59	51-55														
1100	26-04	49														
1200	26-09	51-43														
1300	14	37														
1400	26-17	51-32														
1500	21	26														
1600	25	20														
1700	29	14														
1800	26-32	51-09														
1900	37	03														
2000	26-44	50-57														
2100																
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 14 Apr 66

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200	27-21	50-14														
0300	27	06														
0400	33	49-58														
0500	40	51														05/10
0600	46	44														
0700	52	37														
0800	27-57	49-30														
0900	28-03	22														
1000	07	15														
1100	14	07														
1200	19	48-59														
1300	24	51														
1400	28-30	48-43														
1500	35	37														
1600	40	31														
1700	46	25														
1800	52	18														
1900	58	11														
2000	29-03	48-04														
2100																
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 15 Apr 66

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																05 / 10
0200	29-06	48-06														09 / 10
0300	00	48-00														23 / 10
0400	28-54	06														
0500	48	12														
0600	42	18														
0700	37	23														
0800	28-32	48-29														
0900	27	34														
1000	22	39														
1100	17	44														
1200	28-12	48 49														
1300	07	54														
1400	28-02	48-59														
1500	27-57	49-04														
1600	52	09														
1700	47	14														
1800	42	19														
1900	37	24														
2000	27-33	49-28														
2100																
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 16 Apr 66

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200	28-09	48-57														
0300	15	48														
0400	21	40														
0500	27	32														
0600	33	23														05/10
0700	39	14														
0800	28-44	48-05														
0900	49	47-57														
1000	54	49														
1100	28-59	41														
1200	29-04	34														
1300	-09	27														
1400	29-16	47-20														
1500	21	12														
1600	26	04														
1700	31	46-56														
1800	36	49														
1900	42	41														
2000	29-49	46-34														
2100																
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 17 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	30-20	45-50													45
0300	25	43													05/10
0400	30	35													
0500	35	27													
0600	40	19													
0700	46	12													
0800	30-52	45-05													
0900	57	44-57													
1000	31-02	47													
1100	07	41													
1200	13	32													
1300	19	23													
1400	31-25	44-14													
1500	30	05													
1600	35	43-56													
1700	40	47													
1800	45	39													
1900	51	31													
2000	31-57	43-23													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 18 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	32-25	42-49													
0300	30	43													
0400	35	37													
0500	40	31													
0600	45	25													
0700	50	20													
0800	32-55	42-15													
0900	33-00	09													
1000	33-05	42-03													
1100	10	41-57													
1200	16	51													
1300	22	45													
1400	33-28	41-39													
1500	34	33													
1600	40	27													
1700	46	21													
1800	52	15													
1900	58	09													
2000	34-03	41-03													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 19 Apr 66

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200																
0300																
0400																
0500	35-03	46-13														
0600	09	07														
0700	13	40-01														
0800	35-21	39-55														
0900	28	49														
1000	35	43														
1100	42	37														
1200	48	31														
1300	54	24														
1400	36-00	39-17														
1500	06	10														
1600	12	39-03														
1700	18	38-57														
1800	24	51														
1900	31	45														
2000	36-38	38-39														
2100																
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 20 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	37-17	37-58													
0300	23	51													
0400	29	44													
0500	35	37													
0600	42	31													
0700	49	24													
0800	37-56	37-17													
0900	38-01	11													
1000	06	05													
1100	12	36-59													
1200	18	53													
1300	24	46													
1400	38-30	36-33													
1500	38	27													
1600	46	20													
1700	54	13													
1800	39-02	26-05													
1900	09	35-57													
2000	39-16	35-49													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 21 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	39-58	35-04													
0300	40-05	34-56													
0400	12	48													
0500	19	40													05/10
0600	26	32													
0700	33	25													
0800	40-40	34-18													
0900	46	10													
1000	52	-03													
1100	58	33-55													
1200	41-04	46													
1300	11	38													
1400	41-18	33-30													
1500	24	22													
1600	30	14													
1700	36	06													
1800	42	32-58													
1900	49	50													
2000	41-55	32-42													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 22 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	42-38	31-50													05 / 11
0300	45	42													
0400	52	34													
0500	59	26													
0600	43-06	18													
0700	13	10													
0800	43-20	31-02													
0900	27	30-54													
1000	34	45													
1100	41	37													
1200	49	28													
1300	56	19													
1400	44-03	30-10													
1500	10	02													
1600	17	29-54													
1700	24	46													
1800	31	38													
1900	39	30													
2000	44-46	29-22													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 23 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	45-27	28-35													
0300	34	27													
0400	41	19													05/11
0500	48	11													
0600	55	03													
0700	46-02	27-55													
0800	46-07	27-47													
0900	14	38													
1000	21	29													
1100	28	20													
1200	36	10													
1300	44	27-01													
1400	46-51	26-52													
1500	58	43													
1600	47-05	34													
1700	12	25													
1800	19	16													
1900	27	07													
2000	47-35	25-57													
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 24 Apr 66

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200	47-58	25-04													
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000															
1100															
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS